

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Withdrawn)
2. (Withdrawn)
3. (Cancelled)
4. (Cancelled)
5. (Withdrawn)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Withdrawn)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Cancelled)
17. (Withdrawn)
18. (Cancelled)
19. (Withdrawn)
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29. (Withdrawn)

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31. (Withdrawn)

32. (Cancelled)

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34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Currently Amended) An editing apparatus, comprising:

first editing means for generating a display content program for setting a content of a display screen for displaying states of input-output apparatuses by using display symbols, the display content program including screen data including variable names and the display symbols, the variable names being set with respect to the input-output apparatuses respectively;

second editing means for generating a control procedure program for setting, by control symbols representing commands, a procedure of control for controlling the input-output

apparatuses, the control procedure program including control data including the control symbols and the variable names; and

a single file integrally storing (1) the screen data, (2) the control data, and (3) variable data, which is common to (a) the display content program, (b) the control procedure program, and which includes the variable names; and

data generating means for obtaining the variable data by searching out of the file, causing the first editing means to generate, in the file, data of the display symbols and causing the second editing means to generate, in the file, data of the control symbols based on the variable name of the obtained variable data ~~obtained by searching out of the file~~.

38. (Previously Presented) The editing apparatus as set forth in Claim 37, wherein:

the data generating means configures in the file, the control procedure program by combining the variable data and the control data, where the variable names of the variable data are primary keys and the variable names of the control data are foreign keys, and configures the display content program by combining the variable data and the screen data, where the variable names of the variable data are primary keys and the variable names of the screen data are foreign keys.

39. (Previously Presented) The editing apparatus as set forth in Claim 37, wherein:

in the file, the variable names are root segments while (a) the control data, (b) the screen data and (c) addresses of respective input-output apparatuses are subordinate segments being subordinate to the root segments.

40. (Previously Presented) The editing apparatus as set forth in Claim 37, wherein:

in the file, treated as encapsulated objects are (a) the control symbols, (b) the display symbols, (c) the variable names, and (d) addresses of the respective input-output apparatuses

composing the variable data, where, in each of the objects, both the display symbols, the control symbols, and the addresses are treated as data, and the variable names are treated as procedures, the data being accessed via the variable names.

41. (Previously Presented) The editing apparatus as set forth in Claim 37, wherein:

incidental information supplying means for supplying, from one of the editing means to the other of the editing means, the variable names which are so set as to correspond to addresses of the respective input-output apparatuses, as incidental information regarding either of the plurality of the display symbols, or the plurality of the control symbols.

42. (Original) The editing apparatus as set forth in Claim 41, wherein:

the incidental information supplying means supplies the incidental information in accordance with operation of selecting one of the display symbols and the control symbols that is displayed on an editing screen of one of the editing means, and copying the one of the display symbols and the control symbols, and

the incidental information supplying means causes the copied one of the display symbol and the control symbol to be automatically drawn together with the incidental information, by looking up the common data.

43. (Cancelled)

44. (Currently Amended) A computer-readable recording medium that stores an editing program, the editing program executing:

a first editing process for generating a display content program for setting a content of a display screen for displaying states of input-output apparatuses by using display symbols, the display content program including screen data including variable names and the display symbols, the variable names being set with respect to the input-output apparatuses respectively;

a second editing process for generating a control procedure program for setting, by control symbols representing commands a procedure of control for controlling the input-output apparatuses, the control procedure program, including control data including the control symbols and the variable names; and

a data generating process for obtaining the variable data by searching out of a single file, causing the first editing process to generate, in a the single file, data of the display symbols and causing the second editing process to generate in the single file, data of the control symbols based on the variable name of the obtained variable data, the file integrally storing (1) the screen data, (2) the control data, and (3) variable data, which is common to (a) the display content program, (b) the control procedure program, and which includes the variable names.

45. (Cancelled)

46. (Cancelled)

47. (Previously Presented) The recording medium as set forth in Claim 44, wherein:
the recording medium stores the editing program executing an incidental information supplying process for supplying, from one of the editing processes to the other of the editing processes, variable names, which are so set as to correspond to addresses of the respective input-output apparatuses, where the variable names are supplied as incidental information regarding the plurality of the display symbols, or the plurality of the control symbols.

48. (Original) The recording medium as set forth in Claim 47, wherein:
the incidental information supplying process supplies the incidental information in accordance with operation of selecting an image block that is displayed on an editing screen of one of the editing processes, and copying the image block, and

the incidental information supplying process causes the copied one of the display symbol and the control symbol to be automatically drawn together with the incidental information, by the one of the first and second editing processes, by looking up common data.

49. (Cancelled)

50. (Cancelled)

51. (Currently Amended) A computer-readable recording medium that stores an editing program, the editing program executing:

one of a first editing process and a second editing process, the first editing process for generating a display content program being for setting a content of a display screen for displaying states of input-output apparatuses by using display symbols, the display content program including screen data including variable names and the display symbols, the variable names being set with respect to the input-output apparatuses respectively, and the second editing process being for generating a control procedure program for setting, by control symbols representing commands, a procedure of control for controlling the input-output apparatuses, the control procedure program including control data including the control symbols and the variable names; and

a data generating process for obtaining the variable data by searching out of a single file, causing the first editing process to generate, in a the single file, data of the display symbols and causing the second editing process to generate, in the single file, data of the control symbols based on the variable name of the obtained variable data, the file integrally storing (1) the screen data, (2) the control data; and (3) variable data, which is common to (a) the display content program, (b) the control procedure program, and which includes the variable names.

52. (Cancelled)

53. (Cancelled)

54. (Previously Presented) The recording medium as set forth in Claim 51, wherein:
the recording medium stores the editing program executing an incidental information
supplying process for supplying, from one of the editing processes to the other of the editing
processes, variable names, which are so set as to correspond to addresses of the respective input-
output apparatuses, where the variable names are supplied as incidental information regarding a
the plurality of the display symbols, or the plurality of the control symbols.

55. (Original) The recording medium as set forth in Claim 54, wherein:
the incidental information supplying process supplies the incidental information in
accordance with operation of selecting an image block that is displayed on an editing screen of
one of the editing processes, and copying the image block, and

the incidental information supplying process causes the copied one of the display symbol
and the control symbol to be automatically drawn together with the incidental information, by
the one of the first and second editing processes, by looking up common data.

56. (Cancelled)

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